

ABSTRACT

There is provided an organic electrolyte capacitor having electrodes on current collectors that have holes penetrating the front and rear surfaces, in which electrode materials formed on the through-holes of the current collectors seldom fall off and high energy density and high power density can be obtained. The organic electrolyte capacitor includes positive electrodes, negative electrodes and an electrolyte capable of transferring lithium ions, in which the positive electrodes contain a substance capable of carrying lithium ions and/or anions reversibly as a positive electrode active material, the negative electrodes contain a substance capable of carrying lithium ions as a negative electrode active material, the positive and negative electrodes possess the positive or negative electrode active material layers on an electrode substrate that has conductive layers made of conductive materials on current collectors, which have through-holes, and the negative electrodes carry lithium electrochemically.